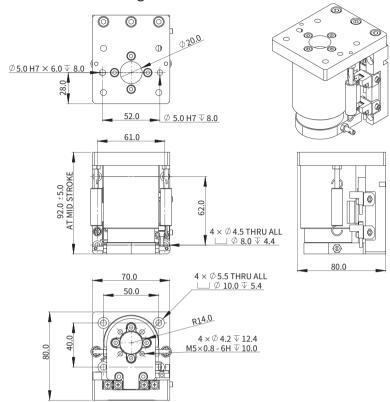


TGV50

Specifications	Unit	Value
Stroke ¹	mm	10
Motor	-	AVM50-HF-10-C15
Continuous Force	N	25.20
Peak Force	N	105.00
Resolution	μm	ABI21: 0.5/0.2
		AT2: 0.2/0.05
Bidirectional Repeatability	μm	ABI21 0.5/0.2: ±1
		AT2 0.2/0.05: ±0.5
Straightness	μm	±2.5
Flatness	μm	±2.5
Rated Payload	Kg	3.0
No-load Moving Mass	Kg	0.26
No-load Total Mass	Kg	1.21
Max. Allowable Payload	Kg	7.5
Max. Allowable Roll Moment Load	Nm	6.8
Max. Allowable Pitch Moment Load	Nm	8.0
Max. Allowable Yaw Moment Load	Nm	9.8

- Stroke refers to hardstop-to-hardstop mechanical stroke. The limit sensor are positioned 0.5mm from the hardstops.
- 2 The rated load is based on the load in which the acceleration of the mass is at least 1G.

■ Dimension Drawing

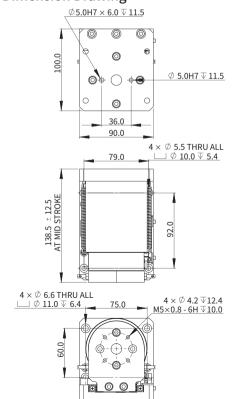


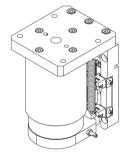
TGV75

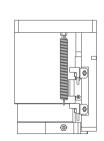
Specifications	Unit	Value
Stroke ⁰	mm	25
Motor	-	AVM75-HF-25-C12
Continuous Force	N	124.69
Peak Force	N	572.90
Resolution	μm	ABI21: 0.5/0.2
		AT2: 0.2/0.05
Bidirectional Repeatability	μm	ABI21 0.5/0.2: ±1
		AT2 0.2/0.05: ±0.5
Straightness	μm	±2.5
Flatness	μm	±2.5
Rated Payload ²	Kg	8.0
No-load Moving Mass	Kg	1.11
No-load Total Mass	Kg	3.85
Max. Allowable Payload	Kg	11.2
Max. Allowable Roll Moment Load	Nm	14.4
Max. Allowable Pitch Moment Load	Nm	15.0
Max. Allowable Yaw Moment Load	Nm	18.2

- ① Stroke refers to hardstop-to-hardstop mechanical stroke. The limit sensor are positioned 0.5mm from the hardstops
- 2 The rated load is based on the load in which the acceleration of the mass is at least 1G.

■ Dimension Drawing





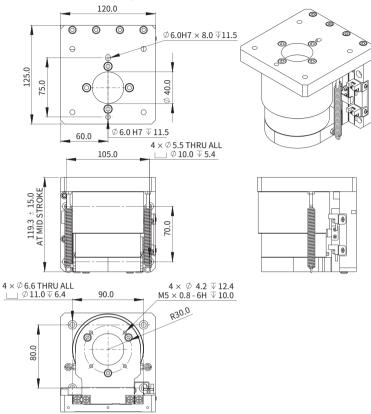


TGV90

Specifications	Unit	Value
Stroke ¹	mm	30
Motor	-	AVM90-30-C77
Continuous Force	N	57.30
Peak Force	N	202.60
Resolution	μm	ABI21: 0.5/0.2
		AT2: 0.2/0.05
Bidirectional Repeatability	μm	ABI21 0.5/0.2: ±1
		AT2 0.2/0.05: ±0.5
Straightness	μm	±2.5
Flatness	μm	±2.5
Rated Payload ²	Kg	6.0
No-load Moving Mass	Kg	1.41
No-load Total Mass	Kg	3.76
Max. Allowable Payload	Kg	14.7
Max. Allowable Roll Moment Load	Nm	28.3
Max. Allowable Pitch Moment Load	Nm	21.1
Max. Allowable Yaw Moment Load	Nm	25.7

- Stroke refers to hardstop-to-hardstop mechanical stroke. The limit sensor are positioned 0.5mm from the hardstops.
- 2 The rated load is based on the load in which the acceleration of the mass is at least 1G.

■ Dimension Drawing

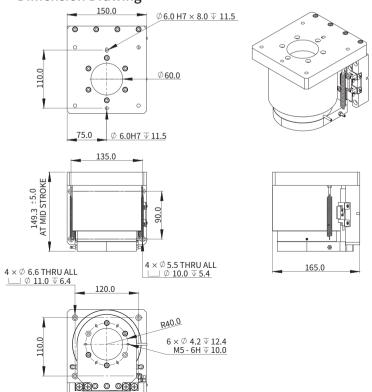


TGV130

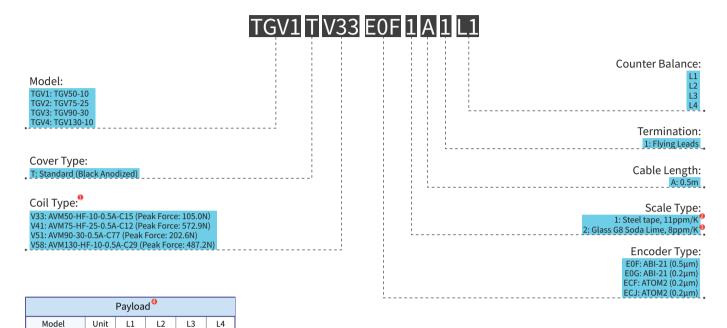
Specifications	Unit	Value
Stroke ⁰	mm	10
Motor	-	AVM130-HF-10-C29
Continuous Force	N	162.40
Peak Force	N	487.20
Resolution	μm	ABI21: 0.5/0.2
		AT2: 0.2/0.05
Bidirectional Repeatability	μm	ABI21 0.5/0.2: ±1
		AT2 0.2/0.05: ±0.5
Straightness	μm	±2.5
Flatness	μm	±2.5
Rated Payload [®]	Kg	15.0
No-load Moving Mass	Kg	2.35
No-load Total Mass	Kg	10.1
Max. Allowable Payload	Kg	25.0
Max. Allowable Roll Moment Load	Nm	91.1
Max. Allowable Pitch Moment Load	Nm	70.9
Max. Allowable Yaw Moment Load	Nm	86.1

- Stroke refers to hardstop-to-hardstop mechanical stroke. The limit sensor are positioned 0.5mm from the hardstops.
- 2 The rated load is based on the load in which the acceleration of the mass is at least 1G.

■ Dimension Drawing



Ordering Part Number (OPN)



Model

TGV50-10

TGV75-25

TGV90-30

TGV130-10

• For Coil Type, only allow the following combinations: TGV50-10: AVM50-HF-10-0.5A-C15 TGV75-25: AVM75-HF-25-0.5A-C12 TGV90-30: AVM90-30-0.5A-C77 TGV130-10: AVM130-HF-10-0.5A-C29

500

2000

2000

5000

ABI-21 uses steel tape scale only.

Unit

g

g

L2

1000

4000

3000

8000

2000

6000

4000

10000

3000

8000

6000

15000

- 6 ATOM2 uses glass scale only.
- 4 Counter-balance position is at mid-stroke.